

WHAT IS CLAIMED IS:

1. A dual-directional hinge for a mobile phone comprising:

a first hinge member having a first tubular part, a passage longitudinally defined at a first end of the first tubular part, a pintle received in the passage, and an opening radially defined at a top side of the first tubular part and adjacent a second end of the first tubular part; and

a second hinge member perpendicular to the first hinge member and mounted in the opening of the first hinge member, the second hinge member having a second tubular part rotatably received in the opening, two arms respectively formed at two diametrically opposite sides of the second tubular part, a first hole defined through a top end of the second tubular part, a resilient member received in the second tubular part from a bottom end of the second tubular part, an upper disk securely received in the second tubular part and under the resilient member, the upper disk having a ridge formed at a bottom surface of the upper disk and a second hole defined through the upper disk, a lower disk beneath the upper disk having a channel defined at a top surface of the lower disk for positioning the ridge and guide inclines formed between the channel and the top surface, and a shaft securely extending through the first hinge member and the lower disk, and rotatably extending through the upper disk, the resilient member and the second tubular part.

2. The dual-directional hinge as claimed in claim 1, wherein the first hinge member further has an aperture with a non-circular segment defined beneath the opening and in communication with the opening; the lower disk has a non-circular hole defined through the lower disk; and the shaft has a lower part

1 with a non-circular section matching the non-circular segment of the aperture
2 and the non-circular hole of the lower disk.

3 3. The dual-directional hinge as claimed in claim 1, wherein the second
4 tubular part has two slots longitudinally defined at the bottom end of the second
5 tubular part; and the upper disk has two stops formed at two diametrically
6 opposite sides of the upper disk and respectively positioned in the slots.

7 4. The dual-directional hinge as claimed in claim 1, wherein the ridge is
8 diametrically formed at the upper disk; and the channel is diametrically defined
9 at the lower disk.

10 5. The dual-directional hinge as claimed in claim 1, wherein the shaft
11 has a ring recess defined at a top end of the shaft extending out of from the first
12 hole of the second tubular part; and a collar is fastened in the ring recess.

13 6. The dual-directional hinge as claimed in claim 1, wherein the first
14 tubular part has a protrusion formed at the top side beside the opening; the pivot
15 member has two wings formed at two diametrically opposite sides of the second
16 tubular part; and two lugs are respectively and symmetrically formed at two
17 bottom surfaces of the wings for abutting the protrusion.